

FORM PTO-1449
THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.4500004/BJD/MTTAPPLICATION NO.
09/677,574APPLICANT
Yang et al.FILING DATE
October 3, 2000GROUP
1652

U.S. PATENT DOCUMENTS

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	AA						
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RH	AJ4	6,306,588 B1	10/23/2001	Solus et al.			02/06/1998
RH	AK4	6,395,524 B2	05/28/2002	Loeb et al.			11/26/1997

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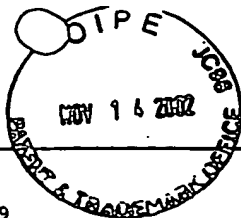
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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RH	AT	37	Astatke, M., et al., "How E. coli DNA Polymerase I (Klenow fragment) Distinguishes between Deoxy- and Dideoxynucleotides," J. Mol. Biol. 278:147-165, Academic Press Ltd. (April 1998)

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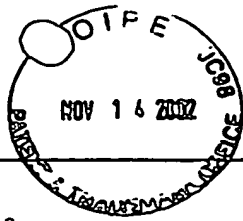
RH	AR	38	Beard, W.A., et al., "Vertical-scanning Mutagenesis of a Critical Tryptophan in the Minor Groove Binding Track of HIV-1 Reverse Transcriptase. Molecular Nature of Polymerase-Nucleic Acid Interactions," <i>J. Biol. Chem.</i> 273:30435-30442, The American Society of Biochemistry and Molecular Biology, Inc. (November 1998)
RH	AS	38	Bebenek, K., et al., "A minor groove binding track in reverse transcriptase," <i>Nat. Struct. Biol.</i> 4:194-197, Nature Publishing Co. (March 1997)
RH	AT	38	Bebenek, K., and Kunkel, T.A., "Analyzing Fidelity of DNA Polymerase," <i>Meth. Enzymol.</i> 262:217-232, Academic Press, Inc. (1995)

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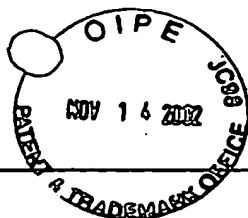
RH	AR	39	Beese, L.S., et al., "Structure of DNA Polymerase I Klenow Fragment Bound to Duplex DNA," <i>Science</i> 260:352-355, American Association for the Advancement of Science (1993)
RH	AS	39	Bell, J.B., et al., "Base Miscoding and Strand Misalignment Errors by Mutator Klenow pPolymerase with Amino Acid Substitutions at Tyrosine 766 in the O-helix of the Fingers Subdomain," <i>J. Biol. Chem.</i> 272:7345-7351, The American Society for Biochemistry and Molecular Biology, Inc. (March 1997)
RH	AT	39	Brownstein, M.J., et al., "Modulation of Non-Templated Nucleotide Addition by Tag DNA Polymerase: Primer Modifications that Facilitate Genotyping," <i>Biotechniques</i> 20:1004, 1006, 1008-1010, Eaton Publishing Co. (June 1996)

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RH	AR	<u>40</u>	Cadwell, R.C., and Joyce, G.F., "Randomization of Genes by PCR Mutagenesis," <i>PCR Meth. Appl.</i> 2:28-33, Cold Spring Harbor Laboratory Press (1992)
RH	AS	<u>40</u>	Clark, J.M., et al., Novel Blunt-end Addition Reactions Catalyzed by DNA Polymerase I of <i>Escherichia coli</i> , " <i>J. Mol. Biol.</i> 198:123-127, Academic Press Ltd. (1987)
RH	AT	<u>40</u>	Cline J., et al., "PCR fidelity of <i>Pfu</i> DNA polymerase and other thermostable DNA polymerases," <i>Nucl. Acid Res.</i> 24:3546-3551, Oxford University Press (September 1996)

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RH	AR	<u>41</u>	Doublie, S., et al., "Crystal structure of a bacteriophage T7 DNA replication complex at 2.2 Å resolution," <i>Nature</i> 391:251-258, Macmillan Journals Ltd. (January 1998)
RH	AS	<u>41</u>	Eom, S.H., et al., "Structure of <i>Taq</i> polymerase with DNA at the polymerase active site," <i>Nature</i> 382:278-281, Macmillan Journals Ltd. (July 1996)
RH	AT	<u>41</u>	Georgiadis, M.M., et al., "Mechanistic implications from the structure of a catalytic fragment of Moloney murine leukemia virus reverse transcriptase," <i>Structure</i> 3:879-892, Current Biology Ltd. (1995)

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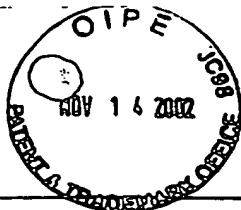
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RH	AR	42	Goodman, M.F., et al., "Biochemical Basis of DNA Replication Fidelity," Crit. Rev. Biochem. Mol. Biol. 28:83-126, CRC Press, Inc. (1993)
RH	AS	42	Harrison, G.P., et al., "Pausing of reverse transcriptase on retroviral RNA templates is influenced by secondary structures both 5' and 3' of the catalytic site," Nucl. Acids Res. 26:3433-3442, Oxford University Press (July 1998)
RH	AT	42	Hu, G., "DNA Polymerase-Catalyzed Addition of Nontemplated Extra Nucleotides to the 3' End of a DNA Fragment," DNA Cell Biol. 12:763-770, Mary Ann Liebert, Inc. (1993)

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RH	AR	43	Jacobo-Molina, A., et al., "Crystal structure of human immunodeficiency virus type 1 reverse transcriptase complexed with double-stranded DNA at 3.0 Å resolution shows bent DNA," <i>Proc. Natl. Acad. Sci. USA</i> 90:6320-6324, National Academy of Sciences of the USA (1993)
RH	AS	43	Joyce, C.M., and Steitz, T.A., "Function and Structure Relationships in DNA Polymerases," <i>Annu. Rev. Biochem.</i> 63:777-822, Annual Reviews, Inc. (1994)
RH	AT	43	Kiefer, J.R., et al., "Crystal structure of a thermostable <i>Bacillus</i> DNA polymerase I large fragment at 2.1 Å resolution," <i>Structure</i> 5:95-108, Current Biology Ltd. (January 1997)

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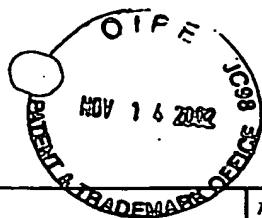
RH	AR	44	Kohlstaedt, L.A., et al., "Crystal Structure at 3.5 Å Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," <i>Science</i> 256:1783-1789, American Association for the Advancement of Science (1992)
RH	AS	44	Kunkel, T.A., "Exonucleolytic Proofreading," <i>Cell</i> 53:837-840, Cell Press (1988)
RH	AT	44	Leung, D.W., et al., "A Method for Random Mutagenesis of a Defined DNA Segment Using a Modified Polymerase Chain Reaction," <i>Technique</i> 1:11-15, W.B. Saunders Co. (1989)

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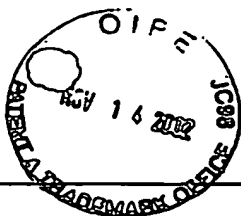
RH	AR	45	Lundberg, K.S., et al., "High-fidelity amplification using a thermostable DNA polymerase isolated from <i>Pyrococcus furiosus</i> ," Gene 108:1-6, Elsevier Science B.V. (1991)
RH	AS	45	Myers, T.W., and Gelfand, D.H., "Reverse Transcription and DNA Amplification by a <i>Thermus thermophilus</i> DNA Polymerase," Biochem. 30:7661-7666, The American Chemical Society (1991)
RH	AT	45	Smith, J.R., et al., "Approach to Genotyping Errors Caused by Nontemplated Nucleotide Addition by Taq DNA Polymerase," Genome Res. 5:312-317, Cold Spring Harbor Laboratory Press (1995)

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RH	AR	46	Yang, S.-W., et al., "Mutant <i>Thermotoga neapolitana</i> DNA polymerase I: altered catalytic properties or non-templated nucleotide addition and incorporation of correct nucleotide," <i>Nucl. Acids Res.</i> 30:4314-4320, Oxford University Press (October 2002)
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